

I CLAIM AS MY INVENTION:

1. A multi-electrode catheter comprising:

- a longitudinally extending body adapted for insertion in a subject, said body having a caudal section ^{and} a cephalad section and a plurality of lumens formed therein proceeding between said caudal section and said cephalad section, each of said lumens having an internal wall;
- a plurality of electrode assemblies respectively including a plurality of electrodes located at an external surface of the caudal section of the body; and
- at least some of said lumens having an electrically conductive surface formed on the internal wall thereof respectively electrically connected to different ones of said electrodes.

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